

## -SB400/UIC/60 Testing unit

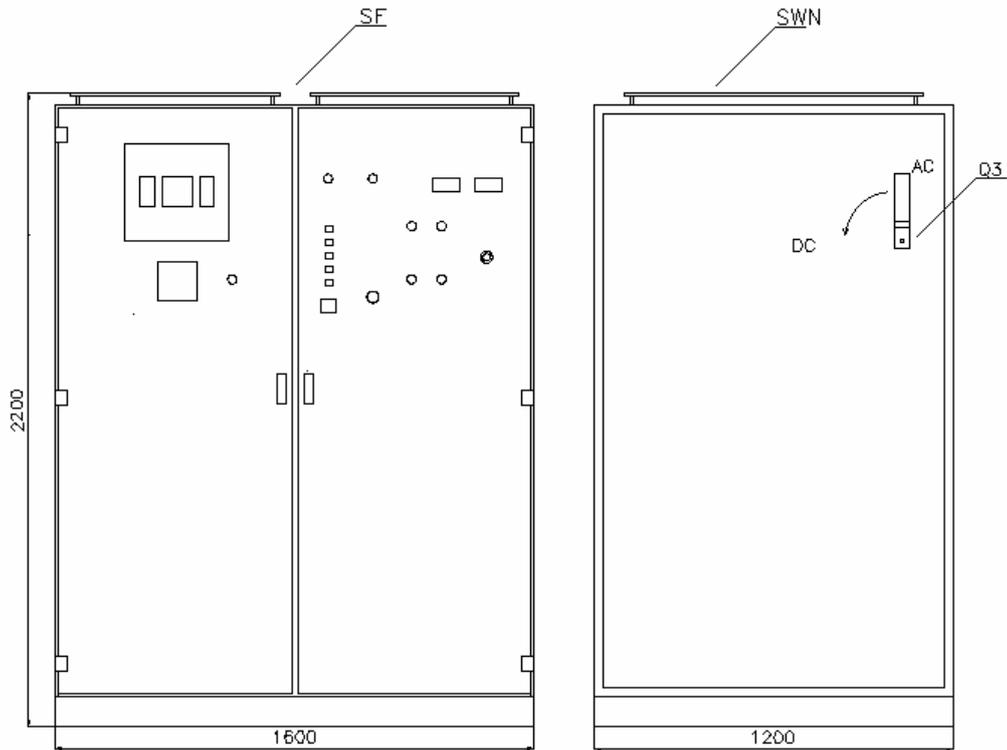


### APPLICATION

-SB 400/UIC/60 is a testing unit designed for testing railway cars in service workshops.

### TECHNICAL DATA

Input voltage	3 x 400V AC, 50Hz
Output voltage	1000V, 16 2/3Hz, sinus,(700÷1200VAC), $I_{max}=70A$
	1000V, 50Hz, sinus,(700÷1200VAC), $I_{max}=70A$
	1500V, 50Hz, sinus,(1090÷2000VAC), $I_{max}=50A$
	3000VDC, (800÷4500 VDC) - 800÷2000 VDC, $I_{max}=70 A$ - 800÷4500 VDC, $I_{max}=25 A$
Output power	60kVA/50kW
Protection against overcurrent during turning on.	
Protection against shorting.	
Galvanic insulation between supplying network and output circuit.	
Signaling of turned on 3 x 400VAC	
Casing protection class	IP21
Ambient temperature range	0÷+30°C
Weight	SN part – 350kg
	WN part – 1000kg
Dimensions:	SN part – 1600 / 600 / 2200 mm
	WN part – 1200 / 800 / 2200 mm



## OPERATION

The input 3 x 400VAC voltage is given through the rectifying bridge and step down converter to the 1-phase inverter. Modulated voltage from the inverter is given to the primary windings of the transformer. The output voltage from the transformer is given through the AC/DC switch to the output clamps. The AC/DC switch (Q3) is used for selection the type of output voltage.

The output current and voltage control is made by control circuit based on microprocessors and hallotron sensors.

-SB 400/UIC/60 provides smooth regulation of output voltage.

Rectifying bridge, step-down converter and 1-phase inverter are placed on heatsink equipped in cooling fan. The fan turns on when the heatsink's temperature reaches 50°C, and turns off when the temperature goes down to 30°C.

The 5-pin clamp placed in the SF part is used for connecting the input voltage, M8 clamps placed in WN part are used for connecting loads.